

EXHIBIT D

Exhibit D**Infringement of U.S. Patent No. 7,130,576 by AT&T and DirecTV Accused Satellite Television Services**

#	U.S. Patent No. 7,130,576	AT&T and DirecTV Accused Satellite Television Services
14a	14. A method of communicating a plurality of transponder signals from a satellite outdoor unit (ODU) that receives a plurality of satellite broadband signals to an integrated receiver decoder (IRD) over a single cable connected to the ODU, the method comprising the steps of:	<p>The Accused Satellite Television Services perform the claimed method utilizing, for example, Signal Selector and Combiner (“SSC”) devices, which include which include SSC-enabled LNBs (for example, SWM5-21 LNB and SWM-13 LNB) and switches (for example, SWM8, SWM16, and SWM30). By way of example, the SWM30 is charted herein.</p> <p>A plurality of transponder signals are communicated from a satellite outdoor unit (ODU) that receives a plurality of satellite broadband signals to an integrated receiver decoder (IRD) over a single cable connected to the ODU as described below:</p>

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		<p>The diagram illustrates the installation of a satellite television system. A satellite dish is connected to an ODU (Outdoor Unit) via a cable. The ODU is connected to an IRD (Indoor Receiver Decoder) via a cable. The IRD is connected to a Service Panel via a cable. The Service Panel is connected to a Single Cable, which is connected to an External Wall. The diagram also shows the connection of a Black Ground Wire to the Service Panel. A note indicates that the GAM 8 Channel Switch Installation is required for a Single Tuner GAM compatible IRD. A warning states that Black Ground Wire indicates #1 Pps CCS Bond.</p>

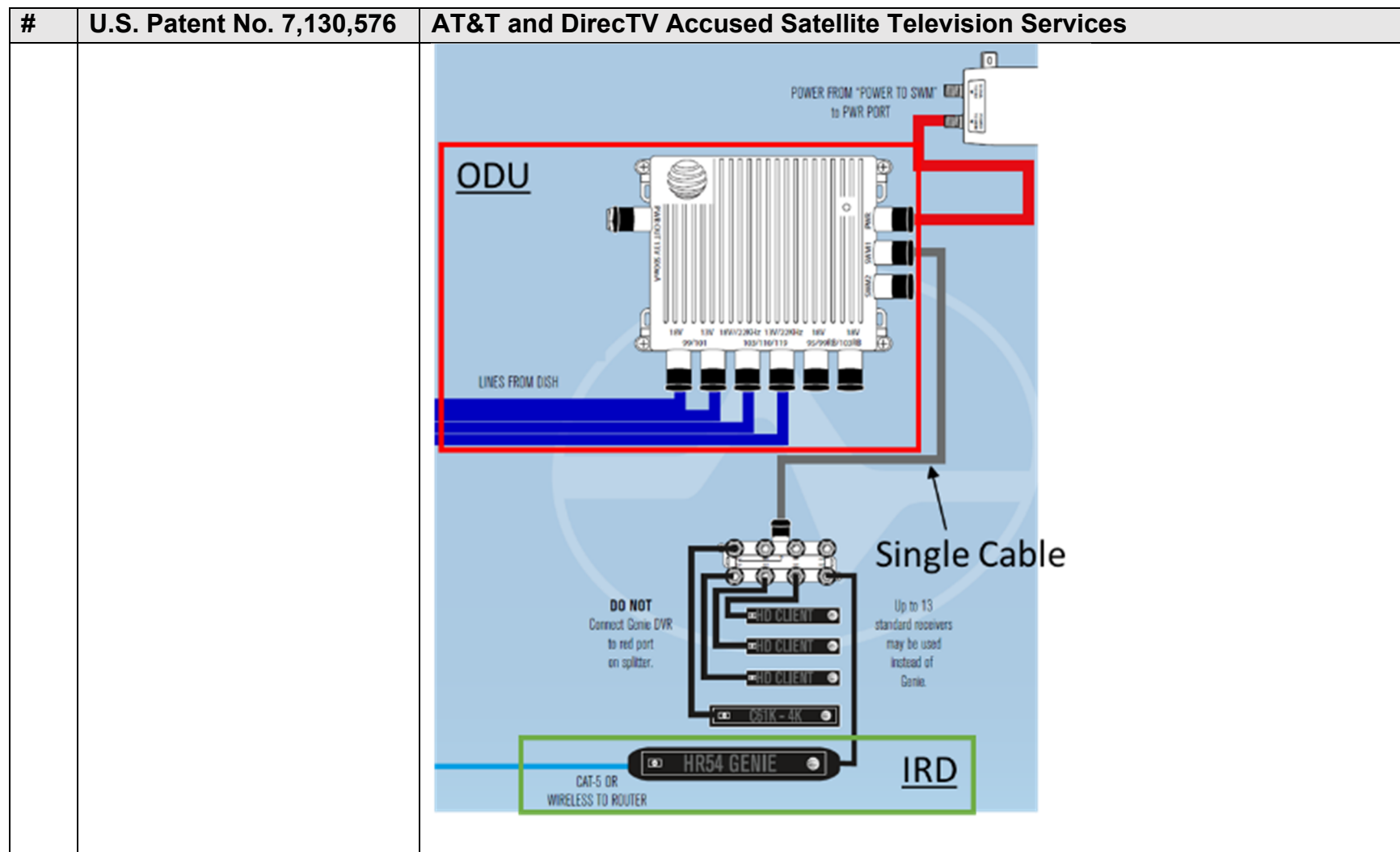
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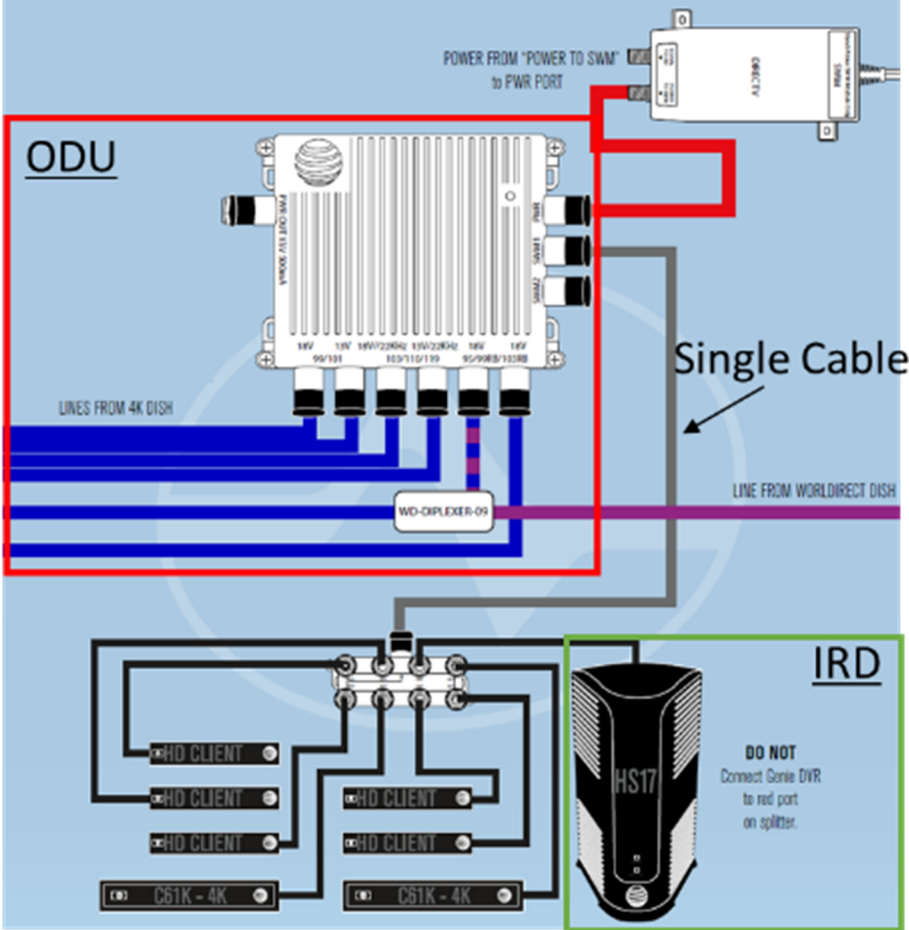
#	U.S. Patent No. 7,130,576	AT&T and DirecTV Accused Satellite Television Services
		 <p>The diagram illustrates a satellite television system. At the top, a power source labeled "POWER FROM 'POWER TO SWM' to PWR PORT" is connected to a "DIRECTV" receiver. Below this, a "Single Cable" is shown. The "ODU" (Overhead Distribution Unit) is a central component with multiple ports. It is connected to "LINES FROM 4K DISH" (blue lines) and a "WD-DUPLEXER-09" (purple line). The "ODU" is also connected to a "LINE FROM WORLDIRECT DISH" (purple line). Below the ODU, there are several "HD CLIENT" devices and a "C61K-4K" device. A "Single Cable" is also connected to an "IRD" (In-Home Receiver/Decoder) labeled "HS17". A warning note next to the IRD states: "DO NOT Connect Genie DVR to red port on splitter."</p>
14b	communicating a transponder request signal to the ODU from the IRD;	<p>The ODU communicates a transponder request signal to the ODU from the IRD as described below:</p> <p>SSC works with the connected IRD's to provide only the specific content the IRD's tuner is requesting. The designated channel for each tuner contains the specific</p>

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		programming each tuner is requesting. Tuners are assigned their individual channel during the IRD's programming guide acquisition phase.
14c	in the ODU, digitizing the plurality of satellite broadband signals, selecting and extracting a plurality of transponder signals from the received digitized satellite broadband signals, wherein the selecting is responsive to the transponder request signals;	The ODU digitizes the plurality of satellite broadband signals, selects and extracts a plurality of transponder signals from the received digitized satellite broadband signals, wherein the selecting is responsive to the transponder request signals as described below:

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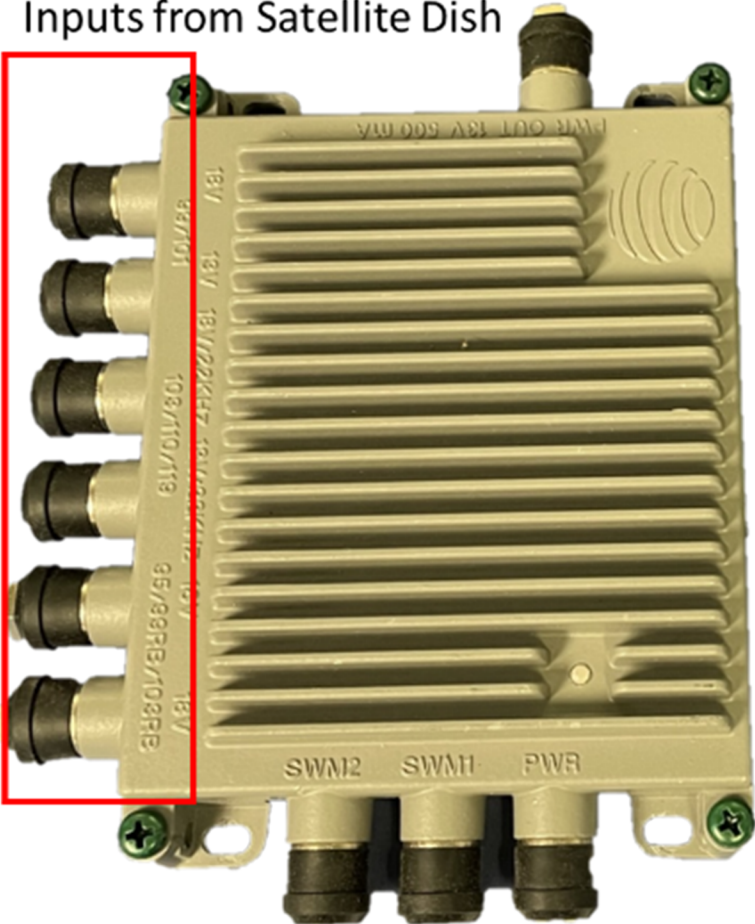
#	U.S. Patent No. 7,130,576	AT&T and DirecTV Accused Satellite Television Services
		<p>Inputs from Satellite Dish</p>  <p>The image shows a beige, rectangular satellite receiver module with a heat sink. On the left side, there are six coaxial input ports, each labeled with technical specifications: 18V, 38/101, 18V, 18V/22KHz, 108/110/119, 95/88RB/102RB, and 18V. A red rectangular box highlights these input ports. The top of the module has a label 'PWR OUT 13V 500mA'. The bottom has three output ports labeled SWM2, SWM1, and PWR. The module is secured with green screws at the corners.</p>

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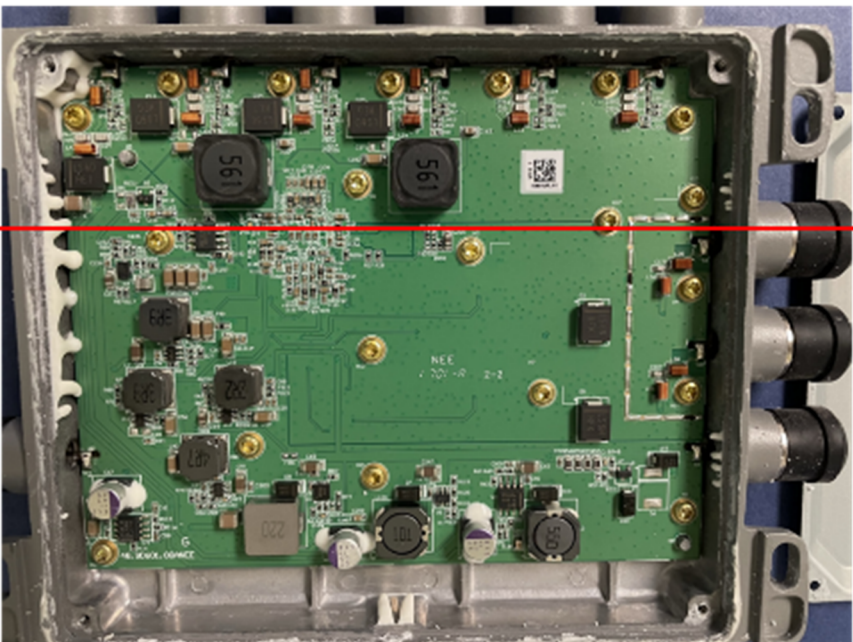
#	U.S. Patent No. 7,130,576	AT&T and DirecTV Accused Satellite Television Services
		<p>Analog-to-Digital Converters Converting Signals from Satellite Dish</p>  <p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV</u>: leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades</u>: Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC)</u>: Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost</u>: replaces multiple analog ODU chips with a single lower cost mixed signal chip.

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14d	combining extracted selected transponder signals into a composite signal;	<p>The ODU combines extracted selected transponder signals into a composite signal as described below:</p> <p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV:</u> leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades:</u> Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC):</u> Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost:</u> replaces multiple analog ODU chips with a single lower cost mixed signal chip.
14e	transmitting the composite signal over the single cable from the ODU to the IRDs, wherein the modulation of the transponder signal is not altered by the steps of selecting, combining, and transmitting.	<p>The ODU transmits the composite signal over the single cable from the ODU to the IRDs, wherein the modulation of the transponder signal is not altered by the steps of selecting, combining, and transmitting as described below:</p>

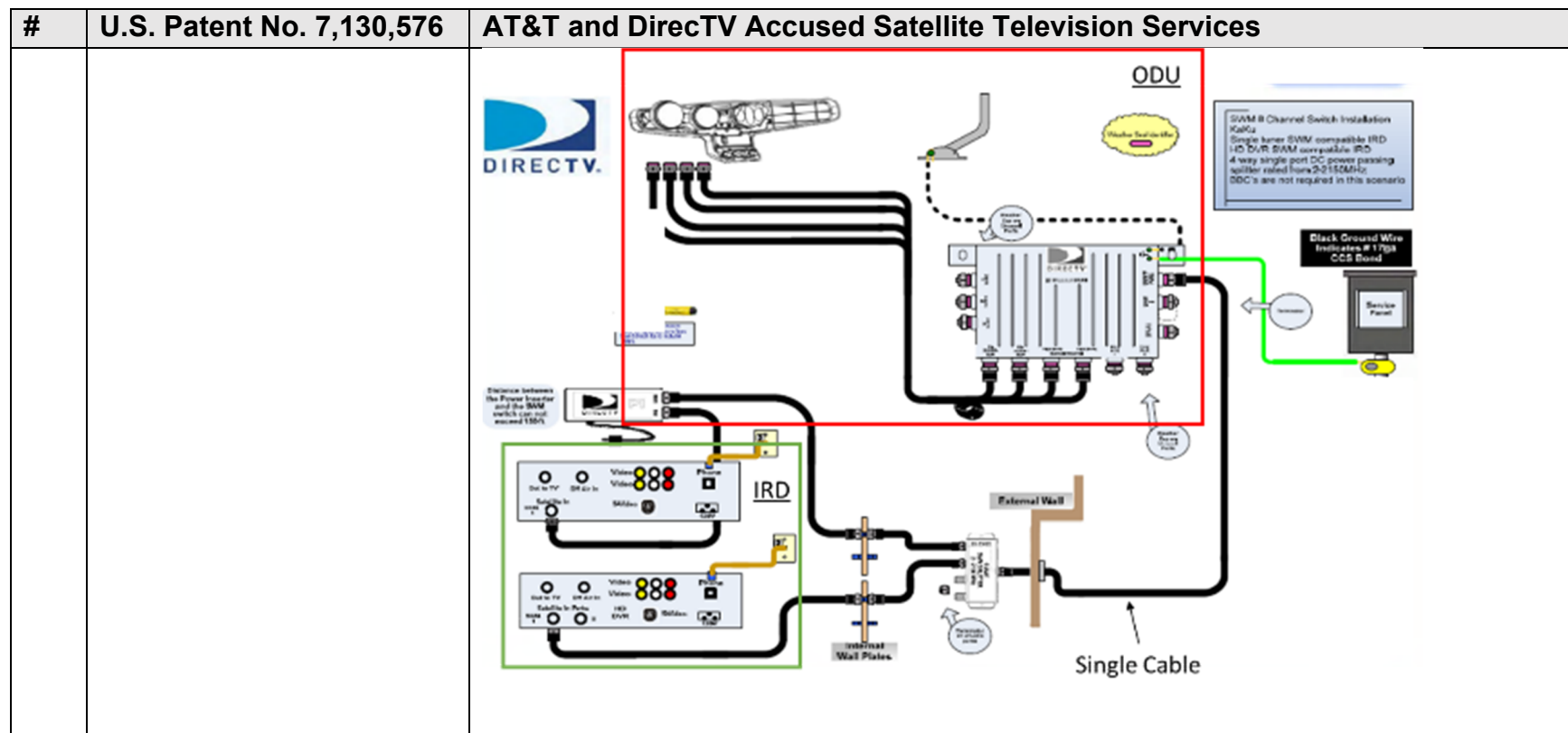
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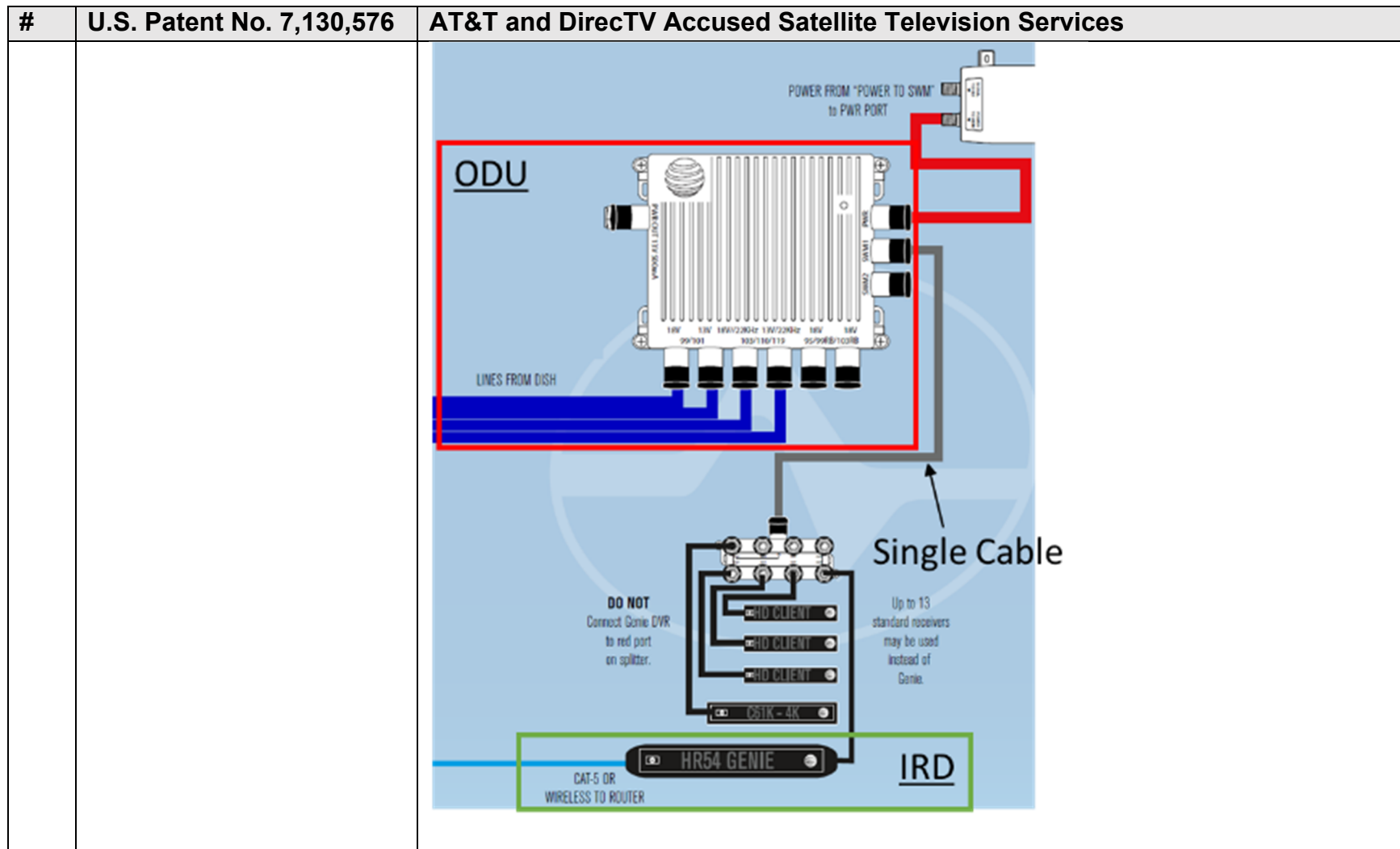
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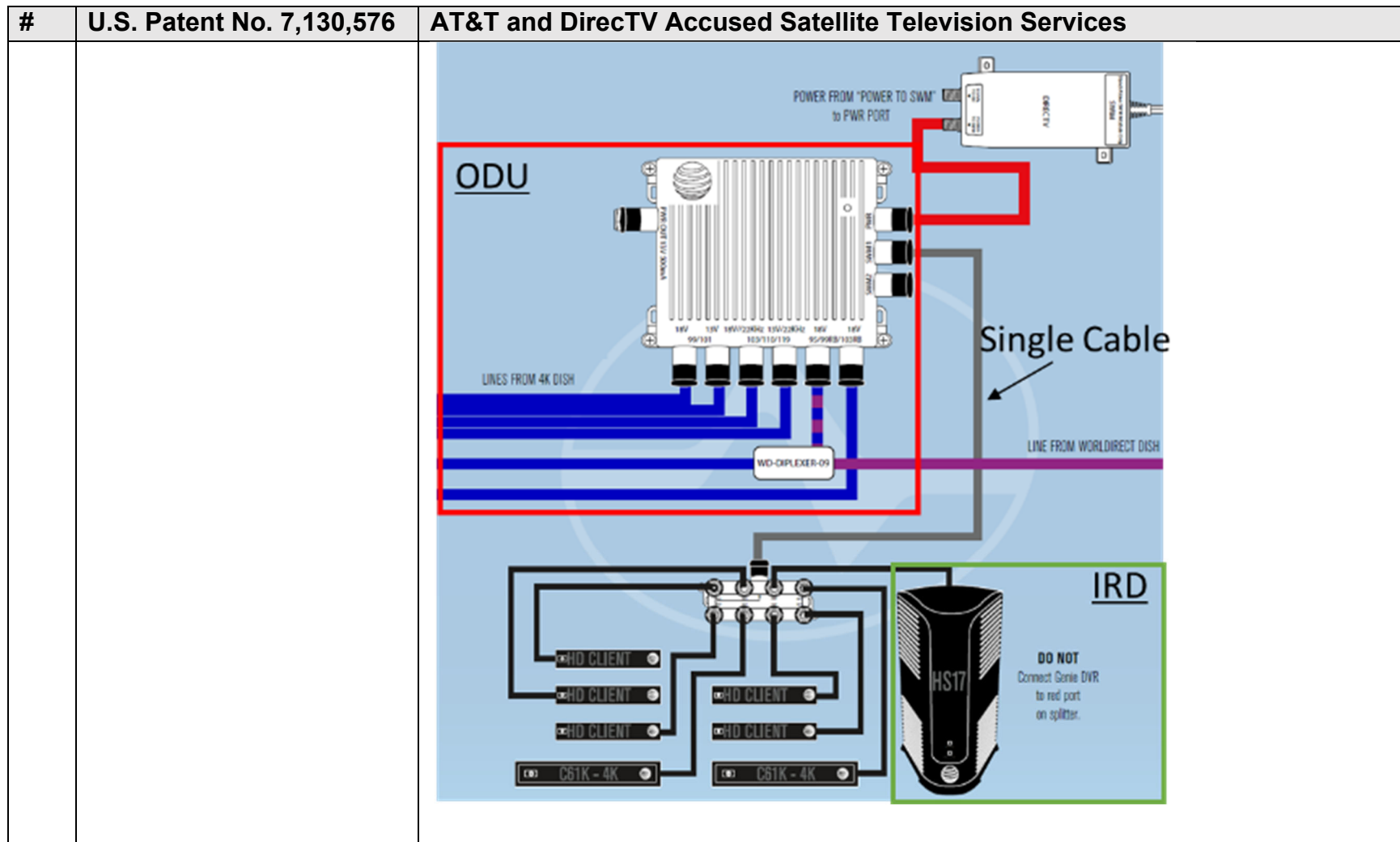
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		<p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV</u>: leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades</u>: Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC)</u>: Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost</u>: replaces multiple analog ODU chips with a single lower cost mixed signal chip. <p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none"> • Second generation with reduced power and better integration in 28 nm process • 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range • 24 user-band output channels • 24 output channels selectable from any LNB input • Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
15	15. The method of claim 14 wherein the step of selecting and extracting a transponder signal	Upon information and belief, the step of selecting and extracting a transponder signal comprises the step of: filtering a transponder signal with a band pass filter having a bandwidth ranging from 5% to 100% wider than the bandwidth of the transponder signal as described below:

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	comprises the step of: filtering a transponder signal with a band pass filter having a bandwidth ranging from 5% to 100% wider than the bandwidth of the transponder signal.	<p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV:</u> leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades:</u> Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC):</u> Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost:</u> replaces multiple analog ODU chips with a single lower cost mixed signal chip. <p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none"> • Second generation with reduced power and better integration in 28 nm process • 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range • 24 user-band output channels • 24 output channels selectable from any LNB input • Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
16	16. The method of claim 14 wherein the step of combining comprises	Upon information and belief, the step of combining comprises frequency translating the selected and extracted transponder channels to a variable frequency before combining as described below:

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	frequency translating the selected and extracted transponder channels to a variable frequency before combining.	<p>SSC works with the connected IRD's to provide only the specific content the IRD's tuner is requesting. The designated channel for each tuner contains the specific programming each tuner is requesting. Tuners are assigned their individual channel during the IRD's programming guide acquisition phase.</p> <p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV:</u> leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades:</u> Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC):</u> Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost:</u> replaces multiple analog ODU chips with a single lower cost mixed signal chip.

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		<p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none"> • Second generation with reduced power and better integration in 28 nm process • 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range • 24 user-band output channels • 24 output channels selectable from any LNB input • Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
17	17. The method of claim 15 further comprising frequency translating the selected transponder channels to a predetermined frequency before combining.	<p>Upon information and belief, The ODU frequency translates the selected transponder channels to a predetermined frequency before combining as described below:</p> <p>SSC works with the connected IRD's to provide only the specific content the IRD's tuner is requesting. The designated channel for each tuner contains the specific programming each tuner is requesting. Tuners are assigned their individual channel during the IRD's programming guide acquisition phase.</p>

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#	U.S. Patent No. 7,130,576	AT&T and DirecTV Accused Satellite Television Services
		<p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV</u>: leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades</u>: Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC)</u>: Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost</u>: replaces multiple analog ODU chips with a single lower cost mixed signal chip. <p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none"> • Second generation with reduced power and better integration in 28 nm process • 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range • 24 user-band output channels • 24 output channels selectable from any LNB input • Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
18	18. The method of claim 14 further comprising the step of splitting the composite signal inside a home and	The ODU splits the composite signal inside a home and distributes to a plurality of IRDs as described below:

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	distributing to a plurality of IRDs.	<p>The diagram illustrates a satellite television system architecture. At the top, a satellite dish is connected to an ODU (Orbital Downlink Unit) via a cable. The ODU is connected to a central distribution unit, which is then connected to multiple IRDs (Intermediate Receiver/Decoder) via a single cable. The IRDs are shown with various ports for video, audio, and power. The system is installed through an external wall, with internal wall plates and a service panel. A note indicates that the system is a 'SWM 8 Channel Switch Installation' and that 'Black Ground Wire Indicates #17ga CCS Braid'.</p>
19	19. The method of claim 14 wherein the transponder request signal is transmitted over the cable from an IRD and all IRDs receive the same composite signal as described below:	The transponder request signal is transmitted over the cable from an IRD and all IRDs receive the same composite signal as described below:

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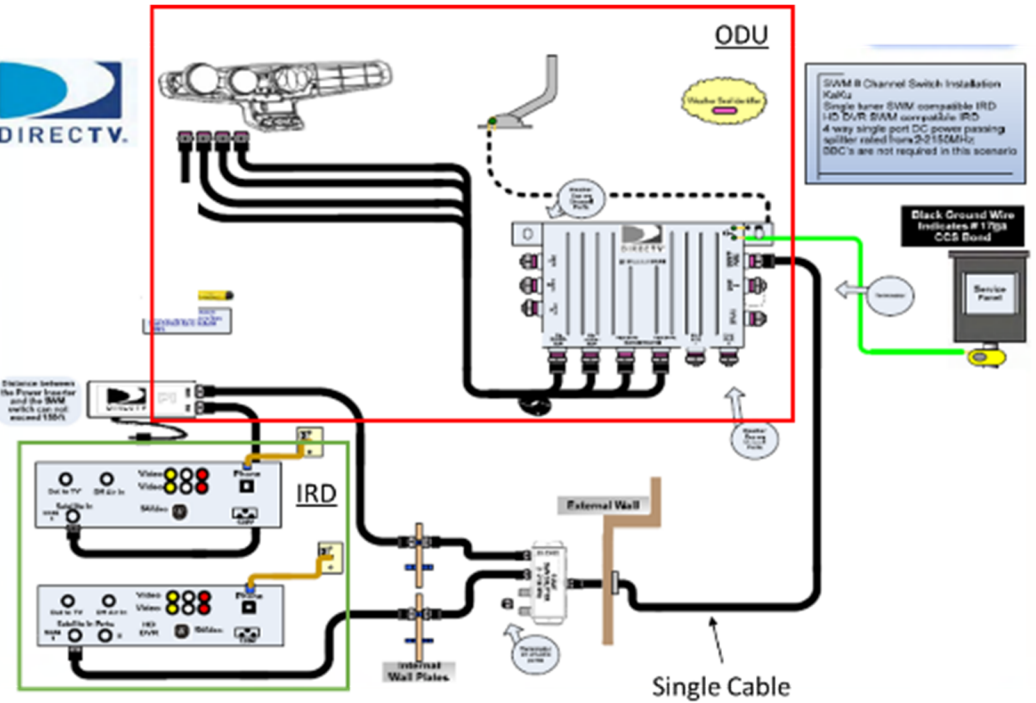
#	U.S. Patent No. 7,130,576	AT&T and DirecTV Accused Satellite Television Services
	distributing to a plurality of IRDs.	
22	22. The method of claim 21 wherein the transponder request signal is transmitted over the cable from an IRD.	<p>The transponder request signal is transmitted over the cable from an IRD as described below:</p>  <p>The diagram illustrates a DirecTV system setup. An Outdoor Unit (ODU) is connected to two Indoor Receiver/Decoder (IRD) units via a single cable. The cable runs through an external wall and is connected to internal wall plates. The IRDs are connected to the wall plates. A note indicates that the distance between the power line and the SAM switch should not exceed 150 inches. Another note mentions that a black ground wire indicates #17ga OCS Bond. A third note states that a SAM B Channel Switch Installation Kit is required for a single line SAM compatible IRD, but that a 4-way single port DC power passing splitter rated from 2-150MHz is not required in this scenario.</p>
34	34. The method of claim 14, wherein selecting and extracting comprises applying a pass band filter	Upon information and belief, the selecting and extracting comprises applying a pass band filter transfer function to the digitized broadband signal as described below:

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	transfer function to the digitized broadband signal.	<p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV:</u> leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades:</u> Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC):</u> Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost:</u> replaces multiple analog ODU chips with a single lower cost mixed signal chip. <p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none"> • Second generation with reduced power and better integration in 28 nm process • 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range • 24 user-band output channels • 24 output channels selectable from any LNB input • Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
36	36. The method of claim 14, wherein the combining is performed in the digital domain.	The ODU performs the combining in the digital domain as described below:

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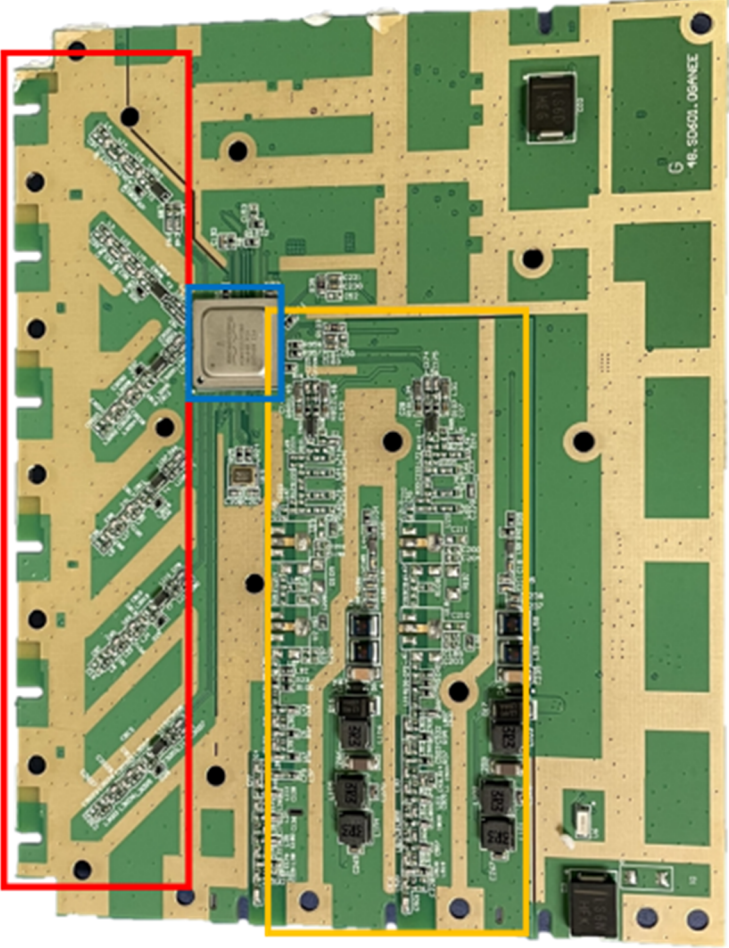
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		 <p>The image shows a top-down view of a satellite television circuit board. The board is green with gold-colored traces and components. A red rectangular box highlights a section on the left side of the board, containing several integrated circuits and passive components. A blue rectangular box highlights a single integrated circuit in the center of the board. A yellow rectangular box highlights a section on the right side of the board, containing several integrated circuits and passive components. The board is populated with various electronic components, including integrated circuits, capacitors, and resistors. The board is labeled with 'G' and '48-SD601-06ANEE' in the top right corner.</p>

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		<p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV:</u> leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies Installation and upgrades:</u> Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC):</u> Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost:</u> replaces multiple analog ODU chips with a single lower cost mixed signal chip. <p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none"> • Second generation with reduced power and better integration in 28 nm process • 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range • 24 user-band output channels • 24 output channels selectable from any LNB input • Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
37	37. The method of claim 17, wherein frequency translating comprises using a digital mixer to apply a	Upon information and belief, the frequency translating comprises using a digital mixer to apply a rotating phasor to the data samples to translate their frequency as described below:

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	rotating phasor to the data samples to translate their frequency.	<p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV:</u> leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades:</u> Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC):</u> Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost:</u> replaces multiple analog ODU chips with a single lower cost mixed signal chip. <p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none"> • Second generation with reduced power and better integration in 28 nm process • 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range • 24 user-band output channels • 24 output channels selectable from any LNB input • Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
38	38. The method of claim 14, further comprising frequency translating the digitized broadband signal	The ODU frequency translates the digitized broadband signal prior to selecting and extracting transponder signal as described below:

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	prior to selecting and extracting transponder signal.	<p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV</u>: leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades</u>: Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC)</u>: Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost</u>: replaces multiple analog ODU chips with a single lower cost mixed signal chip. <p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none"> • Second generation with reduced power and better integration in 28 nm process • 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range • 24 user-band output channels • 24 output channels selectable from any LNB input • Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
39	39. The method of claim 38, wherein frequency translating comprises translating the original	The frequency translating comprises translating the original digitized broadband signal to locate a selected transponder channel at baseband as described below:

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	digitized broadband signal to locate a selected transponder channel at baseband.	<p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV:</u> leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies Installation and upgrades:</u> Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC):</u> Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost:</u> replaces multiple analog ODU chips with a single lower cost mixed signal chip. <p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none"> • Second generation with reduced power and better integration in 28 nm process • 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range • 24 user-band output channels • 24 output channels selectable from any LNB input • Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
40	40. The method of claim 14, further comprising maintaining a channel translation table at the	The ODU maintains a channel translation table at the outdoor unit, the channel translation table specifying assigned frequency slots for transponder channels in the composite signal as described below:

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	outdoor unit, the channel translation table specifying assigned frequency slots for transponder channels in the composite signal.	SSC works with the connected IRD's to provide only the specific content the IRD's tuner is requesting. The designated channel for each tuner contains the specific programming each tuner is requesting. Tuners are assigned their individual channel during the IRD's programming guide acquisition phase.
41	41. The method of claim 38, further comprising providing the channel translation table to the IRD to allow the IRD to tune to a desired selected translated transponder channel.	<p>The ODU provides the channel translation table to the IRD to allow the IRD to tune to a desired selected translated transponder channel as described below:</p> <p>SSC works with the connected IRD's to provide only the specific content the IRD's tuner is requesting. The designated channel for each tuner contains the specific programming each tuner is requesting. Tuners are assigned their individual channel during the IRD's programming guide acquisition phase.</p>
42	42. The method of claim 14, wherein selecting and extracting comprises low-pass filtering the translated digitized broadband signal thereby substantially removing signal information from non-selected transponder channels.	<p>Upon information and belief, the selecting and extracting comprises low-pass filtering the translated digitized broadband signal thereby substantially removing signal information from non-selected transponder channels as described below:</p> <p>Technology Advantages:</p> <ul style="list-style-type: none"> • <u>Drives future TV:</u> leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • <u>Simplifies installation and upgrades:</u> Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • <u>Full-Band Capture (FBC):</u> Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • <u>Lower system cost:</u> replaces multiple analog ODU chips with a single lower cost mixed signal chip.

Exhibit D

#	U.S. Patent No. 7,130,576	AT&T and DirecTV Accused Satellite Television Services
		<p>Broadcom's BCM4551 also offers a higher level of integration, while consuming less power than the previous generation chipset, and it enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset also allows 24 DVB-S2 channels to be stacked on a single coaxial cable to service any set-top box in a home, simplifying and reducing satellite operator installation costs.</p> <p>Key Features and Benefits:</p> <ul style="list-style-type: none">• Second generation with reduced power and better integration in 28 nm process• 8 RF inputs and 1RF output covering the 250 to 2350 MHz frequency range• 24 user-band output channels• 24 output channels selectable from any LNB input• Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)